Food Insecurity, Old-growth Forest Assessment and Carbon Storage Estimation Methods with the 500-Year Forest Foundation Gabriel Quintero '23, Olivia Richards '23 Karin Warren, Environmental Studies & Science

The 500-Year Forest Foundation (500YFF) conserves mature forests and the biologically diverse species they nurture in partnership with private landowners to



help ensure their forests are protected in the future. In 2019, we developed a baseline protocol and conducted forest inventories at three 500YFF forests. In summer 2021, we evaluated our inventory protocol and made modifications to our sampling methodology, retaining the goals of efficiency and affordability. Our proposed summer 2022 work will include

updating our protocols and conducting inventories at one to two 500YFF forests and producing reports. We will also research and trial run methods for estimating carbon storage and sequestration rates for mid-latitude mixed deciduous hardwood forests, and explore remote-sensing using Unmanned Aerial Vehicles (UAVs).

